

Title (en)
REBOUND-EFFECTOR

Title (de)
REBOUND-EFFEKTOR

Title (fr)
EFFECTEUR DE REBOND

Publication
EP 2358484 A1 20110824 (EN)

Application
EP 09796475 A 20091119

Priority
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Abstract (en)
[origin: WO2010059036A1] A Rebound-Effector is a mechanism which runs a weight forth and back, by high acceleration. As the weight accelerates, a rebound force is built up. This force is proportional to the product of the weight and the acceleration, and is in opposite direction to the acceleration vector. The Rebound-Effector has four operational phases. The energy inserts into the system, during the first phase, accelerates the weight to the same direction as the movement, being converted into kinetic energy. This kinetic energy is taken back during the second phase, while slowing down the weight, and stored. During the third phase, the stored energy accelerates the weight to the same moving direction, being converted into kinetic energy. This kinetic energy is taken back during the fourth phase, while slowing down the weight, and stored. Neglecting the friction and the non-ideal behavior of the energy conversion, the Rebound-Effector needs an external energy source just for compensating for the real, effective, physical work it performs.

IPC 8 full level
B06B 1/12 (2006.01); **G01V 1/053** (2006.01)

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